NORTON'S STAR ATLAS

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By ARTHUR P. NORTON, B.A.
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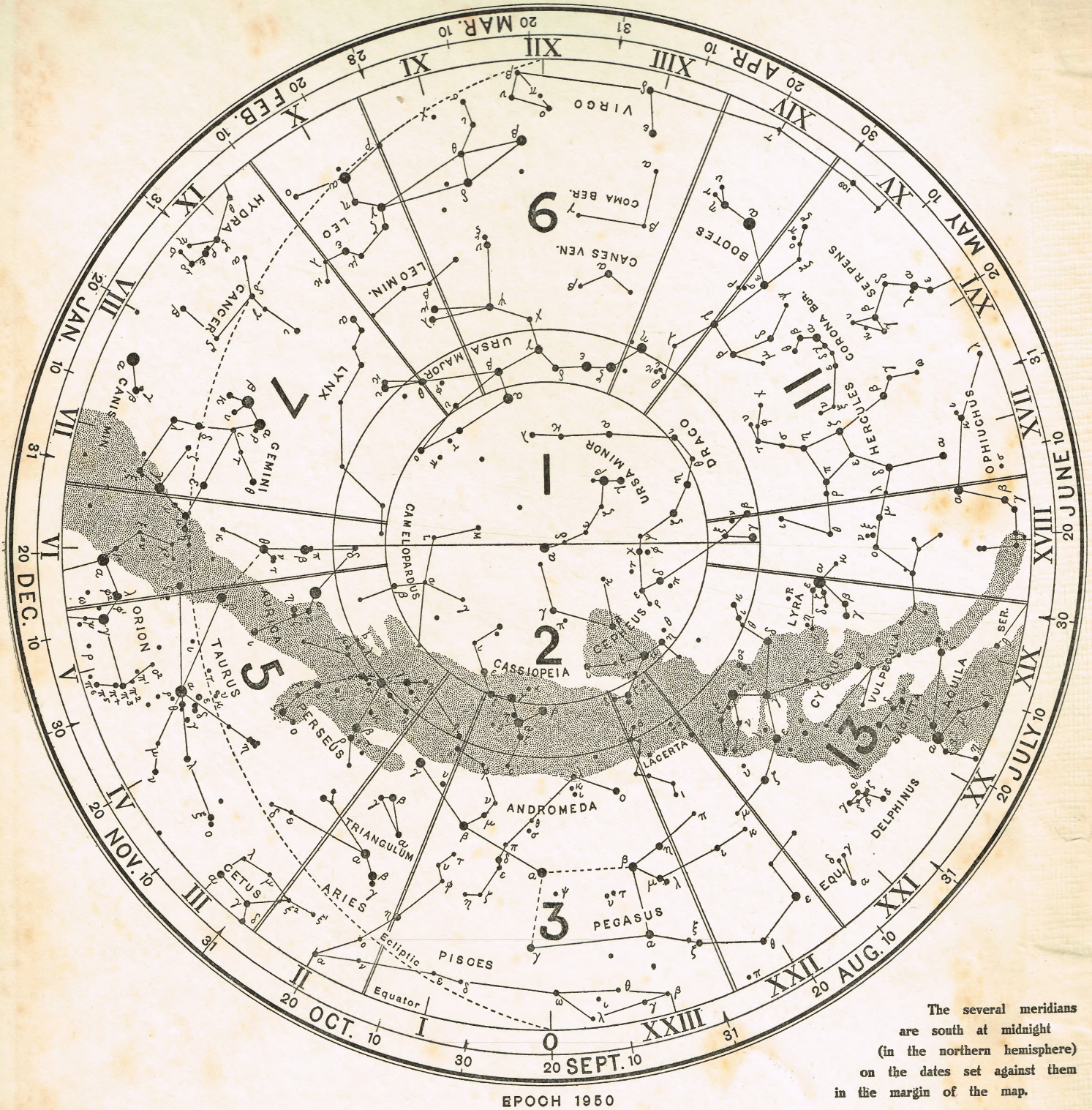
8000 STARS, CLUSTERS, NEBULÆ, &c.,
AND LISTS OF 500 INTERESTING OBJECTS

NORTHERN INDEX MAP



EPOCH 1950

The several meridians are south at midnight (in the northern hemisphere) on the dates set against them in the margin of the map.

Astronomical Symbols (Contractions on p. xvi). $\alpha, \delta, \beta, \lambda$, are also used as inferior indices to other symbols.

α Right Ascension
β Latitude (celestial, geocent.)
δ Declination, +N, −S.
ϵ Obliquity of Ecliptic
θ Sidereal time: θ_0 at mean midnight
λ Longitude (celestial, geocent.)
λ Wave-length, in Angstroms $=0{\cdot}000{,}000{,}1$ mm. (p. 22)
μ Proper motion (total annual); Eccentric anomaly (or E).
μ Micron, $=1/1000$th mm. $\lambda = 10{,}000$
$\mu\mu$ 1/millionth mm. $= \lambda 10$
ν Frequency
π Parallax, annual, in ″; Longitude of perihelion (also $\tilde{\omega}$)
ρ Terrestrial radius
ϕ Geographical latitude: +N.; (ϕ' Geocentric); Angle whose sine = eccentricity
ϕ Altitude of N. Pole
χ Ionisation potential
ω Asc. node-perihelion angle
ϖ Longitude of perihelion
Δ Distance fr. Earth, in A.U.; Difference
Σ (or [ ]) symbol of summation
Ω Longitude of ascending node
A Albedo: Amplitude (variable
A or Az Azimuth [stars)
$C.I.$ Colour index
D Diameter
E Equation of time; Eccentric anomaly; Colour excess
G Gravitational Constant
H or t Hour angle
$H.I.$ Heat Index
I Intensity
L Geograph. longitude, +W.
M Magnitude, absolute (indices, p. xvi): Mean anomaly
P Period (orbital)
P_0 Parallax, equat. horizontal
R Refraction: Sun-Earth dist.
S Solar constant
T Time of perihelion passage or transit: Temperature, T_e effective; T_c colour.
V, T, W, Velocity,* radial (receding +), tangential, spatial.
X, Y, Z Rectangular co-ordinates
a Semi-major axis of ellipse
b Semi-minor axis; Heliocentric latitude; Galactic latitude
d Distance, in seconds of arc
e Eccentricity of orbit
g Acceleration due to gravity
h Altitude
i Inclination of plane of orbit
k Gaussian gravitation constant
l Heliocentric longitude; Galactic longitude
m Magnitude, apparent (Indices, m_v, $_{pv}$, $_{pg}$, &c., see p. xvi)
m Mass, Sun = 1
n Mean angular motion (or μ)
p Annual precession (general)
p Position angle, 0°-360° (p. 5); equat. horizontal parallax
q Perihelion distance
r Radius vector, in A.U.s; Distance in parsecs
t Time of observation; Hr. angle
t_m ,, mean: t_v True time †
t_o ,, of Epoch
v True anomaly
z Zenith distance (apparent)

* With reference to the Sun.

† From Mean or True midnight.

For a complete list of symbols adopted by the International Astronomical Union, refer to the Transactions of the I.A.U., 1938, pages 345 to 355.

Astronomical Publications.

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London:

GALL AND INGLIS, 13 HENRIETTA STREET, STRAND, W.C.;

AND EDINBURGH.

1950

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Made and Printed in Great Britain